Tuesday, 10/3/2006 2:49:56 PM

User:

Kim Johnston

**Process Sheet** 

**Drawing Name** 

**Part Number** 

**Drawing Number** 

Customer

: CU-DAR001 Dart Helicopters Services

Job Number **Estimate Number**  : 28828

: 10281

P.O. Number This Issue

Prsht Rev.

First Issue

: 714:

: 10/3/2006

: 27383

S.O. No. : NA

Type

: MACHINED PARTS

**Previous Run** Written By

Checked & Approved By Comment

: Est Rev:Pick: 4-04.02.18

New issue KJ/DS

Project Number : N/A , C1 **Drawing Revision** 

: D3183043

: D3183 REV C1

: BRACKET ASSEMBLY

:NA

Material : 10/30/2006 **Due Date** 

Qty:

Each

**Additional Product** 

Job Number:



Seq. #:

**Machine Or Operation:** 

Description:

17-4 SS Bar

1.0

M174B2000X01500



0.4812 f(s)/Unit Total: 2.8873 f(s)

Material: 17-4 SS Bar per AMS 5604/5643

(M17-4-B1.500x02.000) Identify for D3183-043 Batch: M19478

06/10/25

2.0

BAND SAW



Comment: BAND SAW

✓ Cut blanks: (1.500" x 2.000") 5.500" long

3.0



Comment: HAAS CNC VERTICAL MACHINING #1

1-Machine D3183-3 as per Folio FA322 and Dwg D3183 Identify as D3183-3

2-Deburr

3-Scribe batch number.

06.16.31

4.0

QC2

1117

Comment: INSPECT PARTS AS THEY COME OFF MACHINE



06,10.51

Page 1

Form: rprocess

Dart Ae	rospace	Ltd						
W/O:			WC	ORK ORDER CHANGES				
DATE	STEP	PR	ROCEDURE CHANGE		Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
	,			<b>»</b>				
	ļ							
				·				
Part No	:	PAR #:	Fault Cate	gory: N	ICR: Yes	DQA:	<u> </u>	2/1/0/
					QA: N/	DQA:	Date: _	
NCR:			WORK ORDI	ER NON-CONFORMANC	CE (NCR	)		
	0750	Description of NC		Corrective Action Section B		Verification	Approval	Approvai
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
							<u> </u>	

NOTE: Date & initial all entries

Tuesday, 10/3/2006 2:49:56 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: BRACKET ASSEMBLY Customer: CU-DAR001 Dart Helicopters Services Part Number: D3183043 Job Number: 28828 Job Number: Description: Seq. #: **Machine Or Operation:** SECOND CHECK QC8 5.0 Comment: SECOND CHECK 6.0 D312121 2.0000 Each(s)/Unit Total: 12.0000 Each(s) Comment: Qty.: Pick: Description Batch **Qty Part Number** B28704 2 D3121-21 7.0 D3183045 Bearing Assembly 2.0000 Each(s)/Unit Total: 12.0000 Each(s) Comment: Qtv.: Pick: **Qty Part Number** Description Batch B28836 2 D3183-045 Bearing Ass SMALL & MEDIUM FAB RESOURCE 1 Comment: SMALL & MEDIUM FAB RESOURCE 1 Assemble D3183-043 as per Dwg D3183. INSPECT WORK TO CURRENT STEP 9.0 QC5 06.11.01 Comment: INSPECT WORK TO CURRENT STEP 10.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and\_Stoc Location: 2 QC21 11.0 Comment: FINAL INSPECTION/W/O RELEASE CLO6/11/01 Job Completion

## **Dart Aerospace Ltd**

W/O:			WC	RK ORDER CHANG	GES			·····		· · · · · · · · · · · · · · · · · · ·
DATE	STEP	PROG	CEDURE CHAI	DURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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		-		·.						
. •										
Part No	:	PAR #:	_ Fault Categ	Jory:	NCF	R: Yes	No DQ/	<b>\</b> :	Date:	
						QA: N	C Closed	<b>:</b> :	_ Date:	
NCR:		W	ORK ORDE	R NON-CONFORM	IANCE	(NCR	)			
DATE	CTED	Description of NC	Description of NC		ction B	VARITICATION   A		Approvai	Approval	
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section		Chief Eng	QC Inspector
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NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	28828
Description: Bracket	Part Number:	D3183-3
Inspection Dwg: D3183 Rev: C1		Page 1 of 1

# FIRST ARTICLE INSPECTION CHECKLIST

X First Article Prototype

Drawing	Talaranaa	Actual	Reject	Method of	Comments	
Dimension	Tolerance	Dimension	Accept	Reject	Inspection	Comments
R0.190	+/-0.030	. 190				
R0.063	+/-0.010	-063				
0.182	+/-0.010	.182	1,			
0.070	+/-0.010	.070	/,			
0.100	+/-0.010	100				
Ø0.201 x 0.100	+/-0.010	202X.099	//			
0.182	+/-0.010	182	//			
5.32	+/-0.030	5.319	/			
5.036	+/-0.010	5.035	/			44
2.120	+/-0.010	2.118	1			
1.290	+/-0.010	1.290				
0.365	+/-0.010	: 365	/,			
0.218	+/-0.010	.215				
1.030	+/-0.010	1.030				
1.90	+/-0.030	1.890	1			
1.012	+/-0.010	1.012				
Ø0.201 x 0.100	+/-0.010	-202 X.102				
0.182	+/-0.010	./82`	/			
0.786	+/-0.010	. 783				
Ø0.392	+0.002/-0.000	392	/			
R0.19	+/-0.030	-190				
3.954	+/-0.010	3.952				
0.162	+/-0.010	./60	/			
R0.19	+/-0.030	.190	1			
R0.25	+/-0.030	, 250	/,			
4.26	+/-0.030	4.260	//			
2.080	+/-0.030	2.100				
1.155	+/-0.010	1.160				
0.162	+/-0.010	. 159				
0.36	+/-0.030	.370	/,			
0.615	+/-0.010	615				
0.435	+/-0.010	.436	/			
0.200	+/-0.010					
0.381	+/-0.010	- <u>202</u> -383	/			
0.032	+/-0.010	·03a				

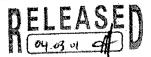
Measured by:	Audited by:	Ind	Prototype Approval:	N/A
Date: 06/10/30	Date:	06/10/30	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	03.11.12	New Issue P/O D3183-043	KJ/RF	
В	04.03.15	Changes as per revision C	KJ/JLM/RF	1
С	06.03.09	Dwg Rev update	KJ/JLM O	





DESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, C	
CHECKED	APPROVED	DRAWING NO. D3183	REV. C SHEET 1 OF 4
DATE 04	02 17	BRACKET ASSEMBLY	SCALE 1:1



DATE			11144	SCALE
04.02.17		04.02.17	BRACKET ASSEMBLY	1:1
	Α.	03.01.24	NEW ISSUE	
	В	03.06.17	REMOVE BEARING; 1.012 WS 0.882	
	С	,04.02.17	ADD -045/-9; 0.182 WAS 0.431	
	C I	-47 04.11.09	0.830 WAS 0.850	

D3121-21 BOLT (1)

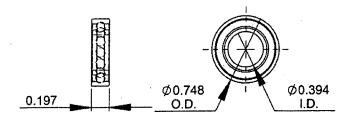
D3183-045 BEARING ASSEMBLY (1) D3121-21 BOLT (1) D3183-045 BEARING ASSEMBLY (1)

D3183-1 BRACKET FOR -041 (SHOWN) OR D3183-2 BRACKET FOR -042 (OPPOSITE)

D3183-3 BRACKET FOR -043 (SIMILAR)

D3183-4 BRACKET FOR -044 (SIMILAR)

D3183-041 BRACKET ASSEMBLY (SHOWN)
D3183-042 BRACKET ASSEMBLY (OPPOSITE
D3183-043 BRACKET ASSEMBLY (SIMILAR)



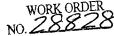
### **D3183-5 BEARING:** SPECIFICATION CONTROL DRAWING

- 1) SINGLE ROW, DEEP GROOVE, SHOP COPY CONRAD TYPE, SHIELDED
  2) POSSIBLE SUPPLIER: NSK P/N 6800ZZ
  3) ALL DIMENSIONS ARE IN INCHES NOT LED SHOP COPY

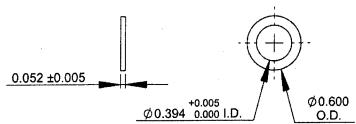
UNCONTROLLED COPY

SUBJECT TO AMENDMENT WITHOUT NOTICE

**D3183-7 WASHER** 

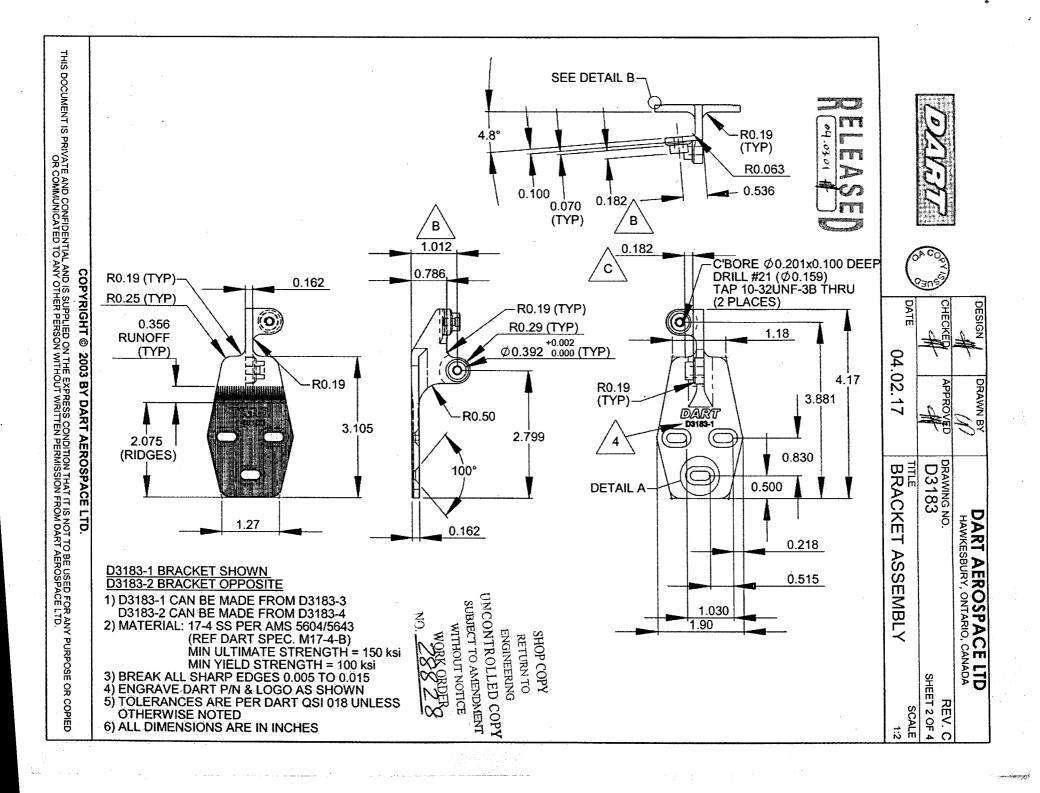


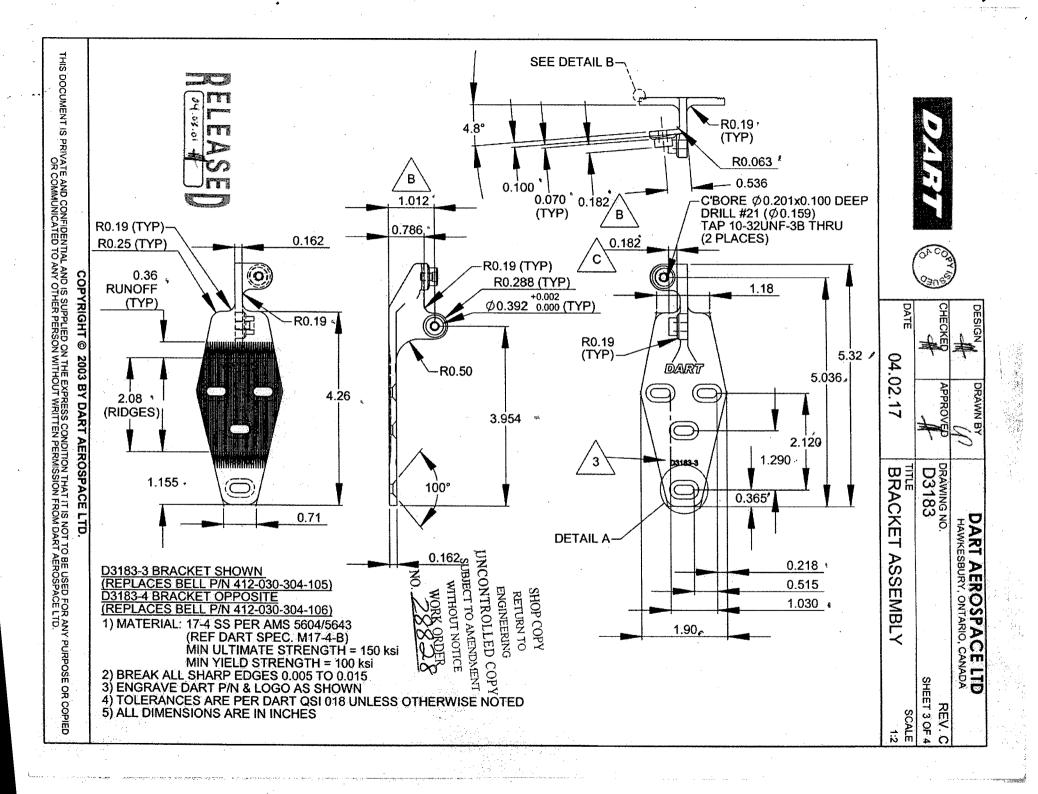
- 1) MATERIAL: AISI 303 ROUND BAR (M303R) **ANNEALED**
- 2) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 3) TOLERANCES ARE PER DART QSI 018 **UNLESS OTHERWISE NOTED**
- 4) ALL DIMENSIONS ARE IN INCHES



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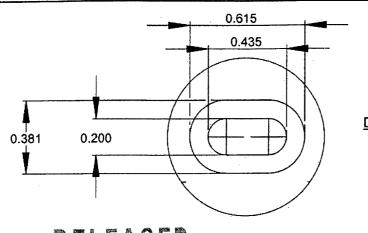








DESIGN	DRAWN BY	DART AEROSPACE HAWKESBURY, ONTARIO, CA	
CHECKED	APPROVED	DRAWING NO. D3183	REV. C SHEET 4 OF 4
DATE 04.	02.17	BRACKET ASSEMBLY	SCALE 1:1



**DETAIL A (2:1)** 

RELEASED

**DETAIL B (20:1)** 

0.199±0.001

R0.031

0.747

±0.001

R0.010

0.276

SECTION C-C SCALE 2:1

0.039

-0.850

0.830

0.720

±0.002

0.032 0.032 SHOP COPY

RETURN TO
ENGINEERING
NCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER

# D3183-9 CAP

- 1) MATERIAL: DELRIN ROD, Ø1.00 (REF DART SPEC. M-DELRIN-R1.00)
- 2) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 3) ALL DIMENSIONS ARE IN INCHES

#### D3183-045 BEARING ASSEMBLY

1) ASSEMBLE D3183-5 BEARING AND D3183-9 CAP

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